

NON-CONFIDENTIAL

1 **Request IR-1:**

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3 **Please file a table showing:**

4

5 **What dollar amounts of transmission costs were allocated to each customer class in 2005, at**
6 **the time the Open Access Transmission Tariff was approved? Please differentiate between**
7 **capital, interest, and O & M costs.**

8

9 **What increases in transmission costs have been allocated to each customer class in all**
10 **Compliance filings since that date? (May 31, 2005) Please differentiate as requested above.**

11

12 **What increases in transmission costs have been allocated to each customer class in each of**
13 **the test years for the present GRA, Matter No. M04972, and also any other forecast**
14 **allocations not yet approved. Please differentiate as requested above.**

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16 **If no allocations for transmission costs have been made or forecast for any transmission**
17 **costs not yet approved in rates please show a column for each year of what increases would**
18 **be applied for. Please differentiate as requested above.**

19

20 **Please show a column showing the increases in absolute dollars and another in percentage**
21 **terms.**

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23 **Response IR-1:**

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25 Please refer to Attachment 1. The requested information has been provided for the
26 above-the-line rate classes only. NS Power does not have comparable transmission cost
27 information for the below-the-line rate classes due to different costing methodologies used in
28 determination of their rates.

Test year-based Transmission-related Expenses by above-the-line rate classes											
\$M	Total Company	Domestic	Small General	General	Large General	Small Industrial	Medium Industrial	Large Industrial	Extra LI Interr/ ELI 2P RTP	Municipal	Unmetered
2005 Compliance Filing											
OM&G	17,018	8,263	446	4,151	711	404	945	1,534		352	213
Grants in Lieu	3,973	1,929	104	969	166	94	221	358		82	50
Depreciation	16,269	7,899	426	3,969	679	386	904	1,466		336	204
Interest	13,336	6,475	349	3,253	557	317	741	1,202		276	167
Preferred Dividends	1,709	830	45	417	71	41	95	154		35	21
Coporate Taxes	8,887	4,315	233	2,168	371	211	494	801		184	111
Other	11,542	6,362	341	3,134	530	301	704	(262)		269	164
Total	72,734	36,072	1,943	18,061	3,086	1,753	4,104	5,252		1,534	930
Relative Share	100.0%	49.6%	2.7%	24.8%	4.2%	2.4%	5.6%	7.2%	N/A	2.1%	1.3%
2006 Compliance Filing											
OM&G	17,725	8,618	484	4,353	699	402	957	1,633		358	220
Grants in Lieu	3,898	1,895	107	957	154	88	210	359		79	48
Depreciation	16,315	7,933	446	4,007	643	370	881	1,503		329	203
Interest	12,754	6,201	349	3,132	503	289	688	1,175		257	158
Preferred Dividends	1,627	791	44	400	64	37	88	150		33	20
Coporate Taxes	9,502	4,620	260	2,334	375	215	513	875		192	118
Other	11,080	6,140	343	3,039	482	276	659	(268)		253	156
Total	72,901	36,199	2,032	18,222	2,920	1,678	3,996	5,428		1,500	925
Relative Share	100.0%	49.7%	2.8%	25.0%	4.0%	2.3%	5.5%	7.4%	N/A	2.1%	1.3%
2007 Compliance Filing											
OM&G	24,667	10,647	577	5,322	846	502	1,167	2,039	2,857	439	270
Grants in Lieu	4,303	1,854	101	927	147	87	203	355	504	76	47
Depreciation	16,412	7,089	384	3,544	563	334	777	1,357	1,891	292	180
Interest	15,865	6,838	371	3,418	543	322	750	1,309	1,859	282	174
Preferred Dividends	1,789	771	42	385	61	36	85	148	210	32	20
Coporate Taxes	10,645	4,588	249	2,293	364	216	503	878	1,247	189	116
Other	12,063	5,199	282	2,599	413	245	570	995	1,413	214	132
Total	85,744	36,987	2,005	18,488	2,938	1,744	4,054	7,082	9,981	1,526	939
Relative Share	100.0%	43.1%	2.3%	21.6%	3.4%	2.0%	4.7%	8.3%	11.6%	1.8%	1.1%
2009 Compliance Filing											
OM&G	25,630	11,097	652	5,660	883	530	1,212	1,923	2,918	453	303
Grants in Lieu	4,437	1,917	113	978	152	92	209	332	513	78	52
Depreciation	18,231	7,895	464	4,027	628	377	862	1,368	2,073	322	215
Interest	13,159	5,686	334	2,900	452	272	621	985	1,522	232	155
Preferred Dividends	1,697	733	43	374	58	35	80	127	196	30	20
Coporate Taxes	10,463	4,521	266	2,306	360	216	494	783	1,210	184	123
Other	11,199	4,839	284	2,468	385	231	528	838	1,295	197	132
Total	84,817	36,688	2,157	18,714	2,918	1,753	4,005	6,358	9,728	1,496	1,001
Relative Share	100.0%	43.3%	2.5%	22.1%	3.4%	2.1%	4.7%	7.5%	11.5%	1.8%	1.2%

\$M	Total Company	Domestic	Small General	General	Large General	Small Industrial	Medium Industrial	Large Industrial	Extra LI Interr/ ELI 2P RTP	Municipal	Unmetered
2012 Compliance Filing											
OM&G	25,314	11,681	554	5,666	805	532	1,039	1,790	2,503	464	280
Grants in Lieu	4,642	2,140	101	1,038	147	97	190	328	463	85	51
Depreciation	22,699	10,465	496	5,076	721	477	930	1,603	2,263	416	251
Interest	14,910	6,874	326	3,335	474	313	611	1,053	1,486	273	165
Preferred Dividends	978	451	21	219	31	21	40	69	98	18	11
Coporate Taxes	4,134	1,906	90	925	131	87	169	292	412	76	46
Other	13,816	6,370	302	3,090	439	290	566	976	1,377	253	153
Total	86,494	39,887	1,892	19,349	2,748	1,817	3,546	6,110	8,602	1,585	956
Relative Share	100.0%	46.1%	2.2%	22.4%	3.2%	2.1%	4.1%	7.1%	9.9%	1.8%	1.1%
2013 Proposed											
OM&G	26,104	13,333	603	6,419	940	628	1,210	2,129	N/A	532	310
Grants in Lieu	5,344	2,729	123	1,314	192	129	248	436	N/A	109	63
Depreciation	26,167	13,365	604	6,434	942	629	1,213	2,135	N/A	533	311
Interest	17,734	9,058	410	4,361	639	427	822	1,447	N/A	361	211
Preferred Dividends	1,076	550	25	265	39	26	50	88	N/A	22	13
Coporate Taxes	7,032	3,592	162	1,729	253	169	326	574	N/A	143	84
Other	18,033	9,210	417	4,434	649	434	836	1,471	N/A	367	214
Total	101,490	51,837	2,344	24,955	3,655	2,441	4,706	8,279	N/A	2,067	1,205
Relative Share	100.0%	51.1%	2.3%	24.6%	3.6%	2.4%	4.6%	8.2%	N/A	2.0%	1.2%
2014 Proposed											
OM&G	26,286	13,417	604	6,481	927	639	1,256	2,138	N/A	532	293
Grants in Lieu	5,712	2,915	131	1,408	201	139	273	464	N/A	116	64
Depreciation	28,866	14,733	663	7,117	1,018	702	1,379	2,347	N/A	585	322
Interest	19,767	10,089	454	4,874	697	481	945	1,607	N/A	400	220
Preferred Dividends	1,126	575	26	278	40	27	54	92	N/A	23	13
Coporate Taxes	7,973	4,069	183	1,966	281	194	381	648	N/A	161	89
Other	19,040	9,718	437	4,694	671	463	910	1,548	N/A	386	212
Total	108,769	55,517	2,497	26,817	3,835	2,644	5,198	8,845	N/A	2,203	1,213
Relative Share	100.0%	51.0%	2.3%	24.7%	3.5%	2.4%	4.8%	8.1%	N/A	2.0%	1.1%

CONFIDENTIAL (Attachments Only)

1 **Request IR-2:**

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3 **Please provide substantiation for all significant (> \$250,000) capital transmission costs**
4 **incurred since May 31, 2005. Please provide ACE plan approvals for all capital**
5 **transmission projects approved but not yet in rates. Please provide details of all additions**
6 **within the test year period planned and included in projections but not yet approved in the**
7 **ACE process.**

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9 Response IR-2:

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11 Please refer to Attachment 1 for details of all transmission projects with spend of more than
12 \$250,000 since 2005.

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14 Please refer to Partially Confidential Attachment 2 for a list of spend and Partially Confidential
15 Attachment 3 for a list of all additions to plant in-service on all transmission projects included in
16 the Application. Also included in these attachments is the Board Approval status.

17

18 Please refer to NSUARB IR-10 for a list of projects included in the test year but not yet approved
19 by the Board.

**Transmission projects >\$250,000
2005 - 2012 YTD**

Project #	Project	Total \$
T001	PROVINCIAL TRANSMISSION LINE REPLACEMENT	7,074,105
T003	PROVINCIAL-TRANS SUBSTATION PRIMARY	12,186,712
T004	PROVINCIAL- SUBSTATION ADDITIONS &	3,272,627
T011	PROVINCIAL - PLANNED TRANS LINE REP	14,565,995
T016	PROTECTION MODIFICATIONS AND REPLAC	2,471,007
T018	PRIMARY EQUIPMENT SPARES	681,236
T491	T491-Replace Breakers 85S-601 and 85S-602	292,076
T498	T498-Overhaul 1H-635 & 1H-633 Breakers Water Street	374,684
T499	REPLACE BREAKERS 30N-635 AND 1N-619	333,843
T501	REFURBISH TRANSFORMER AT 40H-T1 WOO	564,781
T505	T505-Install a New 138-25KV Transformer at Onslow in 2005	1,346,586
T507	T507-TUC Unit 5 LM6000 Combustion Turbine Addition (Transmission Work)	670,476
T510	T510-Replacement of L6003/L6007 Towers in Burnside	845,545
T512	CAPACITOR BANK 36 MVAR AT 99W	849,372
T517	2006 KD RELAY REPLACEMENT	367,462
T518	81S RESERVE ST ADD ONE 69KV BREAKER	566,525
T519	POLE RETREATMENT PROGRAM 2006	588,553
T520	2006 SURVEY TRANSMISSION LINES	360,867
T528	T528-L7011 2006 Miscellaneous Upgrades	490,035
T530	2006 TRANSMISSION GROUND LINE CLEAR	902,352
T533	T533-L6001-Reinsulate, Replace Dampers, Replace Bent Steel	516,923
T547	T547-2007 Pole Retreatment	543,844
T548	TRANSMISSION REPLACEMENT ENGINEERIN	440,607
T554	TOWER INSTALLATION L7001 BEAVER NAR	570,225
T556	2007 TRANSMISSION LINE CLEARANCE	641,613
T558	INSTALLATION OF SUBSTATION SECURITY	319,832
T560	91H-GT3 TRANSFORMER REFURBISHMENT -	2,521,980
T564	CONSTRUCT 137H-HAMONDS PLAINS RD. 1	4,003,880
T565	L7011 PT HASTINGS 3C TO LINGAN 88S	2,420,843
T566	L6002 REINSULATE	1,073,543
T574	ST CROIX INSTALL NEW TRANSFORMER &	4,070,458
T579	Michilin Tap	362,221
T582	2008 POLE RETREATMENT PROGRAM	465,809
T583	55V-WATERVILLE: ADD 7.5/10/12.5 MVA	699,385
T585	2008 L5027 INSULATOR REPLACEMENT	987,382
T586	L6503 RE-INSULATE	1,932,152
T588	REPLACE BRIDGEWATER TRANSFORMER 89W	1,773,084
T592	82V Elmsdale Transformer Addition	2,920,567
T595	UPGRADE L6537	2,234,560
T596	Install 138-25KV Transformer At 22C	1,637,805
T602	Construct 139H Dartmouth Crossing S	4,681,154
T606	2009 Tx Line Insulator Replacement	685,293
T610	2009 Upgrade L6516	654,931
T614	2009 Upgrade L7011	1,373,134
T615	2009 Upgrade L6004	285,960
T617	Upgrade L-8002	1,188,673
T621	St. Croix to Avon - Reconductor 69	662,099
T622	2009 Transmission Switching Improve	806,055
T623	Nuttby Mountain Wind Project Substa	2,939,879
T624	Nuttby Mountain Wind Project Trans	562,864
T638	2010 Pole Retreatment	387,617
T641	L6002 Deteriorated Replacements	438,688
T647	Kempt Road Transformer	1,052,265

**Transmission projects >\$250,000
2005 - 2012 YTD**

Project #	Project	Total \$
T648	PH Biomass Tx Interconnection	1,200,781
T649	1H-B62 Bus Replacement Water St U&U	1,052,046
T650	1H Water St Replace 138 kV GIS	8,607,010
T652	104H-T63 Transformer Refurbishment	759,693
T653	104H-T61 Transformer Refurbishment	882,424
T654	Substation Recloser Replacement	4,225,596
T655	L5028 Upgrade	283,945
T659	L6513 Upgrade	272,144
T660	L7002 Upgrade	271,227
T661	L6515 Upgrade	494,165
T662	2011 Protection Upgrades TUC	2,548,089
T663	2011 Pole Retreatment	508,609
T668	2011 Tx Line Insulator Replacement	3,986,587
T669	Canaan Rd Circuit Breaker Additions	2,129,612
T670	Upgrade L-8002	2,417,152
T671	L6002 Deteriorated Replacements	1,065,206
T672	Upgrade 69 kV Circuit to Bridge Ave	716,941
T673	L6033 and L6035 Transmission Tower	724,664
T674	Canaan Rd 43V to Tremont 51V Line	7,282,367
T675	51V Tremont Circuit Breaker & Bus	7,454,026
T676	2011 Trans Switch & Breaker Upgrade	3,796,898
T677	2011 Trans Subst Insulator & Cutout	988,331
T680	NS-NB Interconnection	250,984
T681	L7011 Deteriorated Replacements	1,756,236
T682	2010 Protection Upgrades	451,761
T683	25 kV Bus Keltic Dr	666,283
T684	2010 PCB Equip. Removal/Destruction	1,638,107
T685	L7004 Deteriorated Replacements	2,449,207
T686	2010 Subs Cutout and Insul. Replace	488,664
T689	L7012 Upgrades	1,074,294
T690	2011 PCB Equipment Removals	1,833,333
T691	Parrsboro Tidal Interconnection	1,508,784
T692	Digby Wind Project Substation	4,319,506
T693	Digby Wind Project Trans Line	4,175,881
T694	Digby Wind Project Interconnect	3,895,162
T695	Glen Dhu 138 kV Substation	3,406,924
T696	101H-T61 Transformer Refurbishment	951,790
T697	59C-T61 Transformer Refurbishment	879,863
T698	64V-T1 Transformer Replacement	292,749
T700	2010 Trans Switch & Breaker Upgrade	2,059,890
T701	2010 Tx Line Insulator Replacement	1,500,525
T703	1H Transformer & Breaker Addition	397,021
T705	131H Lucasville Transformer Additio	1,063,587
T706	Amherst 138kV Substation	498,050
T707	2012 Subst. Recloser Replacement	1,109,793
T710	2012 Transmission Line Insulator Re	767,658
T713	L7009 Lidar Upgrades & Maintenance	595,477
T724	L6552 Upgrade	284,973
T730	2012 Subst PCB Equipment Removal	277,008
T734	9W Tuskett B52 Structure Replacement	272,944

Transmission Capital Spend Forecast		2012F	2013 GRA	2014 GRA	Approved
Project#	Project Name	\$	\$	\$	
38823	2013 Protection Upgrades		2,947,916	-	No
39265	Transmission Reliability Replacement		7,698,545	-	No
39267	Transmission Replacements		6,140,942	-	No
40310	Circuit Switcher Additions		-	-	No
41348	2012 Protection Upgrades Onslow		-	-	Yes (2012 ACE)
41362	7H Beaufort Switchgear Retirement		-	-	No
41386	2012 Pole Retreatment		-	-	Yes (2012 ACE)
41387	2012 Transmission Line Insulator Re		-	-	Yes (2012 ACE)
41390	7V Methals Hydro Transformer Replac		-	-	Yes (2012 ACE)
41391	L6025 Spar Arm Reinforcement		-	-	Yes (2012 ACE)
41395	8H Fairview Switchgear Retirement		-	-	No
41399	2012 Subst Insulator & Cutout Repla		-	-	Yes (2012 ACE)
41422	Onslow Spares Storage Upgrades		-	-	Yes (2012 ACE)
41426	2012 Transmission Switch & Breaker		-	-	Yes (2012 ACE)
41429	2012 Subst PCB Equipment Removal		-	-	Yes (2012 ACE)
41432	L7009 Lidar Upgrades & Maintenance		-	-	Yes (2012 ACE)
41434	Purchase New 42 MVA Spare Transform		-	-	Yes (2012 ACE)
41437	104H-T62 Kempt Rd Transf Rewind		-	-	Yes (2012 ACE)
41438	85S Cable Termination Replacement		-	-	Yes (2012 ACE)
41439	5P & 6P Mobile Substation Upgrades		-	-	Yes (2012 ACE)
41517	L6535 Lidar Upgrades & Maintenance		-	-	Yes (2012 ACE)
41519	Harbour East 138 kV Tx Line		6,903,791	-	No
41520	Harbour East Substation		2,544,112	-	No
41522	138kV Line Terminal at Dart East		570,223	-	No
41535	2012 Steel Tower Painting		-	-	Yes (2012 ACE)
41551	Glentosh Subst. Footing Remediation		-	-	Yes (2012 ACE)
41555	Spare Wind Farm Gen. Transformer		-	-	Yes (June 2012)
41589	22N-Church St Replace 25 kV Bus		-	-	Yes (2012 ACE)
41592	88W New Recloser & Relocate 88W-322		-	-	Yes (2012 ACE)
42269	Circuit Switchers Addit's 2013/2014		492,150	491,811	No
42270	2014 Protection Upgrades		-	5,847,535	No
42396	2014 Trans Reliability Replacements		-	5,683,548	No
42397	2013 Transmission Reinforcements		40,462,286	-	No
42398	2014 Transmission Reinforcements		-	28,920,805	No
14841-T016-630	PROTECTION MODIFICATIONS AND REPLACEMENT		669,054	669,054	Yes (2012 ACE)
14973-T018-820	PRIMARY EQUIPMENT SPARES		300,000	300,000	Yes (2012 ACE)
23115-T001-820	PROVINCIAL TRANSMISSION LINE REPLACEMENT		795,653	859,800	Yes (2012 ACE)
23118-T011-820	PROVINCIAL - PLANNED TRANS LINE REP		5,891,023	6,363,651	Yes (2012 ACE)
23120-T003-820	PROVINCIAL-TRANS SUBSTATION PRIMARY		2,706,071	2,920,669	Yes (2012 ACE)
23121-T004-820	PROVINCIAL- SUBSTATION ADDITIONS		1,308,112	1,412,621	Yes (2012 ACE)
33624-T639	Spare Generator Transformer		-	-	Yes (January 2010)
40231-T688	2011 Protection Upgrades LAK		-	-	Yes (2011 ACE)
40233-T662	2011 Protection Upgrades TUC		-	-	Yes (2011 ACE)
40266-T671	L6002 Deteriorated Replacements		-	-	Yes (2011 ACE)
40281-T668	2011 Tx Line Insulator Replacement		-	-	Yes (2011 ACE)
40317-T703	1H Transformer & Breaker Addition		1,164,909	-	Yes (March 2012)
40321-T687	Canaan Rd to Highbury Trans Line		-	-	Yes (March 2012)
40322-T678	Highbury Road Substation		-	-	Yes (March 2012)
40323-T679	Canaan Road Line Terminal		-	-	Yes (March 2012)
40862-T696	101H-T61 Transformer Refurbishment		-	-	Yes (October 2011)
40867-T697	59C-T61 Transformer Refurbishment		-	-	Yes (October 2011)
40868-T698	64V-T1 Transformer Replacement		-	-	Yes (October 2011)
41005-T691	Parrsboro Tidal Interconnection		-	-	Yes (November 2011)
41430-T707	2012 Subst. Recloser Replacement		-	-	Yes (2012 ACE)
41536-T699	2012 Reliability Technology Trans.		-	-	No
41537-T706	Amherst 138kV Substation		-	-	No
41550-T704	Spare 30MVA 69KV 25/12KV Trans.		-	-	Yes (March 2012)
	Total Transmission Spend		80,594,786	53,469,494	

Transmission Capital Additions Forecast		2012F	2013 GRA	2014 GRA	Approved
Project#	Project Name	\$	\$	\$	
38823	2013 Protection Upgrades		2,947,916	-	No
39265	Transmission Reliability Replacement		6,915,168	-	No
39267	Transmission Replacements		6,140,942	-	No
40310	Willow Lane Circuit Switcher Add		-	-	No
41362	7H Beaufort Switchgear Retirement		-	-	No
41390	7V Methals Hydro Transformer Replac		-	-	Yes (2012 ACE)
41395	8H Fairview Switchgear Retirement		-	-	No
41437	104H-T62 Kempt Rd Transf Rewind		-	-	Yes (2012 ACE)
41438	85S Cable Termination Replacement		-	-	Yes (2012 ACE)
41517	L6535 Lidar Upgrades & Maintenance		-	-	Yes (2012 ACE)
41520	Harbour East Substation		3,449,575	-	No
41522	138kV Line Terminal at Dart East		778,014	-	No
41535	2012 Steel Tower Painting		-	-	Yes (2012 ACE)
41551	Glentosh Subst. Footing Remediation		-	-	Yes (2012 ACE)
41555	Spare Wind Farm Gen. Transformer		-	-	Yes (June 2012)
41589	22N-Church St Replace 25 kV Bus		-	-	Yes (2012 ACE)
42269	Circuit Switchers Addit's 2013/2014		-	983,961	No
42270	2014 Protection Upgrades		-	5,847,535	No
42396	2014 Trans Reliability Replacements		-	5,114,647	No
42397	2013 Transmission Reinforcements		34,400,396	-	No
42398	2014 Transmission Reinforcements		-	28,403,555	No
14841-T016-630	PROTECTION MODIFICATIONS AND REPLACEMENT		669,054	669,054	Yes (2012 ACE)
14973-T018-820	PRIMARY EQUIPMENT SPARES		300,000	300,000	Yes (2012 ACE)
23115-T001-820	PROVINCIAL TRANSMISSION LINE REPLACEMENT		724,730	915,848	Yes (2012 ACE)
23118-T011-820	PROVINCIAL - PLANNED TRANS LINE REP		5,470,479	5,937,033	Yes (2012 ACE)
23120-T003-820	PROVINCIAL-TRANS SUBSTATION PRIMARY		2,547,061	2,738,768	Yes (2012 ACE)
23121-T004-820	PROVINCIAL- SUBSTATION ADDITIONS		1,256,652	1,359,606	Yes (2012 ACE)
33624-T639	Spare Generator Transformer		-	-	Yes (January 2010)
40231-T688	2011 Protection Upgrades LAK		-	-	Yes (2011 ACE)
40233-T662	2011 Protection Upgrades TUC		-	-	Yes (2011 ACE)
40266-T671	L6002 Deteriorated Replacements		-	-	Yes (2011 ACE)
40281-T668	2011 Tx Line Insulator Replacement		-	-	Yes (2011 ACE)
40317-T703	1H Transformer & Breaker Addition		1,076,951	-	Yes (March 2012)
40321-T687	Canaan Rd to Highbury Trans Line		-	-	Yes (March 2012)
40322-T678	Highbury Road Substation		-	-	Yes (March 2012)
40323-T679	Canaan Road Line Terminal		-	-	Yes (March 2012)
40862-T696	101H-T61 Transformer Refurbishment		-	-	Yes (October 2011)
40867-T697	59C-T61 Transformer Refurbishment		-	-	Yes (October 2011)
40868-T698	64V-T1 Transformer Replacement		-	-	Yes (October 2011)
41005-T691	Parrsboro Tidal Interconnection		-	-	Yes (November 2011)
41348-T726	2012 Protection Upgrades Onslow		-	-	Yes (2012 ACE)
41386-T735	2012 Pole Retreatment		-	-	Yes (2012 ACE)
41387-T710	2012 Transmission Line Insulator Re		-	-	Yes (2012 ACE)
41391-T728	L6025 Spar Arm Reinforcement		-	-	Yes (2012 ACE)
41399-T729	2012 Subst Insulator & Cutout Repla		-	-	Yes (2012 ACE)
41422-T736	Onslow Spares Storage Upgrades		-	-	Yes (2012 ACE)
41426-T733	2012 Transmission Switch & Breaker		-	-	Yes (2012 ACE)
41429-T730	2012 Subst PCB Equipment Removal		-	-	Yes (2012 ACE)
41430-T707	2012 Subst. Recloser Replacement		-	-	Yes (2012 ACE)
41432-T713	L7009 Lidar Upgrades & Maintenance		-	-	Yes (2012 ACE)
41434-T737	Purchase New 42 MVA Spare Transform		-	-	Yes (2012 ACE)
41519-T731	Harbour East 138 kV Tx Line		7,792,383	-	No
41537-T706	Amherst 138kV Substation		-	-	No
41550-T704	Spare 30MVA 69KV 25/12KV Trans.		-	-	Yes (March 2012)
41592-T732	88W New Recloser & Relocate 88W-322		-	-	Yes (2012 ACE)
	Total Transmission Additions		74,469,321	52,270,006	

NON-CONFIDENTIAL

1 **Request IR-3:**

2

3 **Please provide similar substantiation for increases to interest and O & M costs**
4 **functionalized to transmission since May 31, 2005.**

5

6 Response IR-3:

7

8 Please refer to MEUNSC IR-2 for a list of capital transmission costs that NS Power has incurred
9 since 2005. These projects provide insight as to why interest expense has increased.

10

11 NS Power provides explanations for increases to operating costs and interest in the evidence of
12 general rate applications.

NON-CONFIDENTIAL

1 **Request IR-4:**

2

3 **Please provide similar information for increases in allocations to each customer class for**
4 **generation assets and interest and O & M costs for the same period. Include the allocation**
5 **of all additional costs functionalized to generation during that period.**

6

7 Response IR-4:

8

9 Please refer to Attachment 1.

Test year-based Generation-related Expenses by above-the-line rate classes											
\$M	Total Company	Domestic	Small General	General	Large General	Small Industrial	Medium Industrial	Large Industrial	Extra LI Interr/ ELI 2P RTP	Municipal	Unmetered
2005 Compliance Filing											
Fuel	269,054	121,446	6,806	68,212	12,407	7,149	16,614	27,827	0	5,411	3,182
Purchased Power	23,196	10,799	595	5,788	1,028	589	1,373	2,272	0	472	281
O &M	77,771	37,210	2,021	19,124	3,318	1,892	4,421	7,224	0	1,599	963
Grants in Lieu	18,590	8,974	485	4,549	783	446	1,042	1,696	0	384	232
Depreciation	52,108	25,177	1,361	12,745	2,192	1,247	2,917	4,744	0	1,075	650
Interest	65,161	31,369	1,698	15,970	2,756	1,569	3,669	5,977	0	1,343	811
Preferred Dividends	8,351	4,020	218	2,047	353	201	470	766	0	172	104
Corporate Taxes	43,424	20,905	1,132	10,642	1,836	1,046	2,445	3,983	0	895	540
Other	54,018	29,338	1,572	14,456	2,446	1,386	3,250	(425)	0	1,240	755
Total	611,674	289,237	15,887	153,533	27,119	15,526	36,201	54,062	0	12,591	7,518
2006 Compliance Filing											
Fuel	324,920	147,590	8,565	82,751	14,071	8,207	19,388	34,138	0	6,390	3,820
Purchased Power	25,794	12,030	690	6,481	1,079	626	1,483	2,581	0	513	310
O &M	83,505	40,049	2,266	20,667	3,360	1,937	4,606	7,915	0	1,676	1,027
Grants in Lieu	19,251	9,317	525	4,741	765	440	1,047	1,791	0	388	238
Depreciation	58,038	28,101	1,583	14,288	2,304	1,325	3,154	5,395	0	1,169	719
Interest	66,267	31,883	1,801	16,372	2,655	1,530	3,637	6,241	0	1,332	817
Preferred Dividends	8,453	4,067	230	2,089	339	195	464	796	0	170	104
Corporate Taxes	49,373	23,755	1,342	12,198	1,978	1,140	2,710	4,650	0	992	608
Other	54,082	29,515	1,649	14,633	2,323	1,332	3,176	(514)	0	1,216	752
Total	689,684	326,307	18,650	174,219	28,873	16,732	39,666	62,994	0	13,847	8,396
2007 Compliance Filing											
Fuel	431,431	\$163,085	\$9,212	\$91,016	\$15,309	\$9,245	\$21,263	\$38,412	\$72,560	\$7,059	\$4,270
Purchased Power	31,777	12,487	693	6,643	1,092	655	1,513	2,698	5,143	529	323
O &M	93,957	38,207	2,086	19,492	3,133	1,866	4,330	7,617	14,659	1,590	975
Grants in Lieu	20,903	8,598	467	4,325	690	410	952	1,667	3,220	356	219
Depreciation	65,338	26,892	1,460	13,517	2,155	1,280	2,975	5,206	10,056	1,112	684
Interest	78,427	32,075	1,747	16,249	2,602	1,548	3,594	6,307	12,158	1,331	817
Preferred Dividends	8,844	3,617	197	1,832	293	175	405	711	1,371	150	92
Corporate Taxes	52,625	21,522	1,172	10,903	1,746	1,039	2,411	4,232	8,158	893	548
Other	49,785	36,034	1,899	16,643	2,521	1,474	3,459	(2,619)	(11,958)	1,438	894
Total	833,087	342,517	18,934	180,622	29,542	17,691	40,901	64,232	115,368	14,457	8,822
2009 Compliance Filing											
Fuel	497,464	185,894	11,278	108,982	17,959	10,674	24,438	39,909	84,959	8,274	5,097
Purchased Power	39,697	15,382	922	8,595	1,391	830	1,899	3,072	6,523	664	421
O &M	99,595	40,508	2,394	21,213	3,345	2,005	4,584	7,318	15,442	1,679	1,106
Grants in Lieu	22,114	9,113	537	4,688	734	440	1,007	1,601	3,372	374	249
Depreciation	73,784	30,424	1,791	15,640	2,447	1,469	3,357	5,338	11,241	1,247	830
Interest	71,297	29,057	1,717	15,175	2,390	1,433	3,276	5,227	11,026	1,202	793
Preferred Dividends	9,194	3,747	221	1,957	308	185	422	674	1,422	155	102

Test year-based Generation-related Expenses by above-the-line rate classes											
\$M	Total Company	Domestic	Small General	General	Large General	Small Industrial	Medium Industrial	Large Industrial	Extra LI Interr/ ELI 2P RTP	Municipal	Unmetered
Corporate Taxes	56,690	23,104	1,365	12,066	1,901	1,139	2,605	4,156	8,767	956	631
Other	55,479	36,933	2,137	17,430	2,622	1,586	3,619	(1,639)	(9,652)	1,437	1,005
Total	925,315	374,162	22,363	205,746	33,097	19,762	45,206	65,656	133,101	15,988	10,235
2012 Compliance Filing											
Fuel	458,893	182,348	9,095	101,991	15,821	10,460	20,380	36,648	69,517	7,827	4,807
Purchaased Power	93,622	38,462	1,889	20,633	3,126	2,067	4,035	7,176	13,630	1,613	990
O &M	115,878	49,922	2,401	25,245	3,688	2,438	4,759	8,316	15,849	2,028	1,232
Grants in Lieu	24,658	10,766	515	5,354	773	511	998	1,735	3,310	434	263
Depreciation	98,894	43,242	2,067	21,464	3,097	2,048	3,996	6,941	13,245	1,740	1,053
Interest	82,428	35,742	1,714	17,928	2,605	1,722	3,362	5,859	11,173	1,446	877
Preferred Dividends	5,408	2,345	112	1,176	171	113	221	384	733	95	58
Corporate Taxes	22,856	9,911	475	4,971	722	478	932	1,625	3,098	401	243
Other	74,450	44,389	2,082	20,848	2,894	1,913	3,734	1,062	(5,247)	1,735	1,040
Total	977,087	417,127	20,352	219,610	32,896	21,751	42,415	69,746	125,308	17,318	10,563
2013 Proposed											
Fuel	342,028	160,541	8,615	88,113	14,250	9,289	17,827	32,571	0	6,889	3,933
Purchaased Power	102,589	49,045	2,526	26,182	4,154	2,713	5,227	9,483	0	2,072	1,188
O &M	133,545	66,036	3,186	33,457	5,107	3,371	6,497	11,616	0	2,709	1,566
Grants in Lieu	24,368	12,163	576	6,073	916	607	1,170	2,082	0	495	287
Depreciation	108,634	54,238	2,568	27,068	4,083	2,704	5,212	9,276	0	2,206	1,279
Interest	85,794	42,667	2,036	21,425	3,248	2,148	4,140	7,382	0	1,741	1,008
Preferred Dividends	5,206	2,589	124	1,300	197	130	251	448	0	106	61
Corporate Taxes	34,021	16,919	807	8,496	1,288	852	1,642	2,927	0	691	400
Other	81,385	44,122	2,045	21,659	3,224	2,143	4,132	1,247	0	1,778	1,034
Total	917,570	448,320	22,482	233,773	36,468	23,959	46,096	77,032	0	18,686	10,755
2014 Proposed											
Fuel	365,712	170,740	9,160	94,569	15,013	10,062	19,732	35,157	0	7,343	3,937
Purchaased Power	116,965	55,878	2,862	29,893	4,632	3,124	6,136	10,815	0	2,353	1,272
O &M	135,601	67,059	3,213	34,027	5,067	3,454	6,788	11,761	0	2,738	1,494
Grants in Lieu	24,516	12,241	575	6,120	901	616	1,210	2,087	0	495	271
Depreciation	112,310	56,094	2,636	28,030	4,123	2,820	5,543	9,553	0	2,270	1,242
Interest	89,216	44,401	2,101	22,310	3,296	2,252	4,426	7,642	0	1,802	985
Preferred Dividends	5,082	2,529	120	1,271	188	128	252	435	0	103	56
Corporate Taxes	35,985	17,909	847	8,999	1,330	908	1,785	3,083	0	727	397
Other	78,497	42,605	1,956	20,910	3,031	2,082	4,092	1,181	0	1,706	937
Total	963,884	469,455	23,470	246,128	37,580	25,446	49,963	81,714	0	19,537	10,591

REDACTED

1 **Request IR-5:**

2
 3 **Please describe how the interconnection since 2005 of renewable generation assets owned**
 4 **by Nova Scotia Power has affected the costs functionalized to transmission plant. Please**
 5 **describe additions to the transmission system funded by Independent Power Producers as**
 6 **Network Upgrades and as NSP Interconnection Facilities since 2005. Please provide the**
 7 **dollar amounts so added and how and when the assets have been or are to be added to rate**
 8 **base.**

9
 10 Response IR-5:
 11
 12 Please refer to the figure below for costs related to network upgrades and interconnection
 13 facilities. Note however, that Network Upgrades and Interconnection Facilities funded by
 14 Independent Power Producers (IPPs) are included in the contracted energy price and are not
 15 included in rate base.

16

Network Upgrades Fully Funded by IPPs	\$M	Year In-Service	Network Upgrades Funded by NSPI	\$M	Year In-Service	Interconnection Facilities Funded by IPP / Network Upgrades Funded by NSPI	NSPI \$M	IPP \$M	Year In-Service
Pubnico Point		2004	Nuttby Mountain	0.56	2010	Glen Dhu	3.4	0	2011
Lingan		2006	Gulliver's Cove (Digby)	3.2	2010	Amherst	2.8	2.4	2012
Bear Head (Pt. Tupper)		2010				Parrsboro Tidal	1.7*		2012
Dalhousie Mountain		2010							

17 *In lieu of berth holder fees, NSPI contributed \$1.7M towards the FORCE facility interconnection.